PAGE: 1

RAW SEQUENCE LISTING PATENT APPLICATION US/09/183,972A

DATE: 05/08/2000

TIME: 20:30:47

Input Set: I183972A.RAW

This Raw Listing contains the General Information Section and up to first 5 pages.

R5

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<110> APPLICANT: Hageman, Gregory S.
           Kuehn, Markus H.
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 3
           ON A NOVEL HUMAN GENE FAMILY
 5
     <130> FILE REFERENCE: UIA-027.01
     <140> CURRENT APPLICATION NUMBER: US/09/183,972A
     <141> CURRENT FILING DATE: 1998-10-29
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19
20
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21
           cag att tta gcc agt ctt caa gct tat tat aga ttg aga gtg tgt cag
                                                                               96
22
           Gln Ile Leu Ala Ser Leu Gln Ala Tyr Tyr Arg Leu Arg Val Cys Gln
23
                        20
                                             25
           gaa gca gta tgg gaa gca tat cgg atc ttt ctg gat cgc atc cct gac
24
           Glu Ala Val Trp Glu Ala Tyr Arg Ile Phe Leu Asp Arg Ile Pro Asp
25
26
                                         40
27
           aca ggg gaa tat cag gac tgg gtc agc ttc tgc cag cag gag acc ttc
                                                                               192
28
           Thr Gly Glu Tyr Gln Asp Trp Val Ser Phe Cys Gln Gln Glu Thr Phe
29
                                     55
30
           tgc ctc ttt gac atc gga caa aac ttc agc aat tcc cag gag cac ctg
                                                                               240
           Cys Leu Phe Asp Ile Gly Gln Asn Phe Ser Asn Ser Gln Glu His Leu
31
32
                                70
                                                     75
33
           gat ctt ctc cag cag aga ata aaa cag aga agt ttc cct gag aga aaa
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           Asp Leu Leu Gln Gln Arg Ile Lys Gln Arg Ser Phe Pro Glu Arg Lys
34
35
36
           gat gaa gta tot aca gag aag aca ttg gga gag cot agt gaa acc att
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37
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38
                                            105
39
           gtg gtt tca aca gat gtt gcc agc gtc tca ctt ggg cct ttc cct gtc
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40
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41
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42
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<223> OTHER INFORMATION: "n" bases at various positions throughout the sequence may be a, t, c, g, other or unknown <400> SEQUENCE: 3

TECH CENTER 1600/2000

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<220> FEATURE: <221> NAME/KEY: CDS

<220> FEATURE:

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PAGE: 3 RAW SEQUENCE LISTING
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TIME: 20:30:47

Input Set: **I183972A.RAW**

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96	agccag		_	_	_		-			_		_		_		
	agccag	-		_	_		_	_	_			-				169
97			Tyr	Leu	GIU		Arg	Arg	АТа	тте		vaı	Pne	Trp	TTE	
98		1				5					10					
99	ttt ct															217
100	Phe Le	u Gln	Val	Gln	_	Thr	Lys	Asp	Ile		Ile	Asn	Ile	Tyr		
101	15				20					25					30	
102	tct ga			_		_				_		_			_	265
103	Ser Gl	u Thr	Lys	Asp	Ile	Asp	Asn	Pro	Pro	Arg	Asn	Glu	Thr	Thr	Glu	
104				35					40					45		
105	agt ac	t gaa	aaa	atg	tac	aaa	atg	tca	act	atg	aga	cga	ata	ttc	gat	313
106	Ser Th	r Glu	Lys	Met	Tyr	Lys	Met	Ser	Thr	Met	Arg	Arg	Ile	Phe	Asp	
107			50					55					60			
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109	Leu Al	a Lys	His	Arg	Thr	Lys	Arg	Ser	Ala	Phe	Phe	Pro	Thr	Gly	Val	
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112	Lys Va	l Cys	Pro	Gln	Glu	Ser	Met	Lys	Gln	Ile	Leu	Asp	Ser	Leu	Gln	
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115	Ala Ty	r Tyr	Arg	Leu	Arg	Val	Cys	Gln	Glu	Ala	Val	Trp	Glu	Ala	Tyr	
116	95	_			100		_			105		_			110	
117	cgg at	c ttt	ctg	gat	cgc	atc	cct	qac	aca	qqq	qaa	tat	caq	qac	tgg	505
118	Arg Il		_	_	_			_			-		_	_		
119		•		115				-	120	-		•		125	•	
120	gtc ag	c atc	tqc	caq	caq	qaq	acc	ttc	tac	ctc	ttt	qac	att	ααa	aaa	553
121	Val Se				_				_			-				
122			130					135	- 2				140	1	-1-	
123	aac tt	c agc	aat	tcc	caq	gag	cac	cta	gat	ctt	ctc	caq	caq	aσa	ata	601
124	Asn Ph															
125		145					150					155		3		
126	aaa ca	σ aσa	agt	ttc	cct	gac	aga	aaa	αat	σаа	ata	tct	αса	αaα	aaα	649
127	Lys Gl					-	-		_	_					_	
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130	Thr Le					_			-				_	_	_	
131	175	_			_								_			
132	aac gt															745
133	Asn Va															
134				195					200		F			205		
135	aat ga	a att	ctc		aat	aca	ctc	aac		acc	aan	atα	cct		aca	793
136	Asn Gl															,,,
137	01	u 110	210					215	nop		2,5	ric c	220	1111	****	
138	gaa ag	പ വടം		gaa	++~	ac+	ata		gag	gag	car	agg		gag	ctc	841
139	Glu Ar	_		_		_		_			_					0.4.1
140	OLU AI	9 31u 225	* * * * * *	υ±u	1 116	тта	230	Leu	o_u	GIU	9111	235	۷ат	GIU	пец	
141	agc gt		c+~	at a	220	cac		++~	220	ace	asa.		ac+	asa.	tcc	889
142	Ser Va		_	_		_	_		_	_			_	_		007
142	Ser va 24		nea	νат	Hall	245	гуз	FIIE	гуз	ATG	250	ьeu	ита	нар	Set	
			+ ~ +	+	a		a+-	~~-	~~-	~			~++	a	a+-	027
144	cag to	c cca	cat	cac	cag	gag	cta	gca	gga	aag	TCC	caa	CTT	cag	atg	937

RAW SEQUENCE LISTING
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Input Set: 1183972A.RAW

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151	Gly :	Phe	Arg		Lys	Lys	Glu	Lys	Asp	Gly	Ser	Ser	Ser		Glu	Met	
152				290					295					300			
153	caa							_		_	_	_	_		_		1081
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156	gca																1129
157	Ala		Asp	Leu	Leu	Ser	Phe	Asp	Ser	Asn	Lys	Ile	Glu	Ser	Glu	Glu	
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160	Val '	Tyr	His	Gly	Thr	Met	Glu	Glu	Asp	Lys	Gln	Pro	Glu	Ile	Tyr	Leu	
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162	aca																1225
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166	Gln	Ser	Leu	Asp	Val	Gly	Thr	Ile	Gln	Phe	Thr	Asp	Glu	Ile	Ala	Gly	
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168	tca																1321
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170			385					390					395				
171	ttt																1369
172	Phe .		Val	Ile	Thr	Glu	Asp	Ala	Thr	Leu	Ser	Pro	Glu	Leu	Pro	Pro	
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175	Val	Glu	Pro	Gln	Leu		Thr	Val	Asp	Gly		Glu	His	Gly	Leu		
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177	gac																1465
178	Asp '	Thr	Ser	Trp		Pro	Pro	Ala	Met		Ser	Thr	Ser	Leu		Glu	
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183	ggc			_		_	_		_	_		_		_			1561
184	Gly '	Thr		Asp	Thr	Met	Ala		Asp	GIn	Thr	Met		Val	Pro	Gly	
185			465					470					475				
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187	Leu '		тте	Pro	Thr	ser	_	Tyr	ser	АТа	тте		GIn	Leu	Ата	Leu	
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189	gga						_			_	-	_	_		_	_	1657
190	Gly	īТе	Ser	His	Pro		Ala	Ser	Ser	Asp	_	Ser	Arg	Ser	Ser		
191	495					500					505					510	
192	ggt		_	_	_	_	-			_	_	_	-	_		_	1705
193	Gly	GТÀ	Glu	Asp		Va⊥	Arg	His	Leu		GLu	Met	Asp	Leu		Asp	
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	201	atc	acc		aσt	tct	ata	acc		acc	ccc	aag	aac		gag	cta	ata	1849
	202				-		_			_		Lys		-		_	-	
	203		560					565				-1-	570	5				
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	205											Ala						
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	207		aac	aaσ	agc	tct		σаσ	tac	cga	act	ctg	αaα	caa	caa	ttc		1945
	208											Leu						
•	209			-7-		595			- 4 -	5	600					605		
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	211	_	-	_					_			Leu				_		
	212				610		-,-		5	615				1	620	-1-		
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	221	655				-	660					665					670	
	222	qaa	ata	qac	aqc	tac	tct	ctc	aac	att	qaa	cca	act	qat	caa	qca	gat	2185
	223											Pro						
	224			•		675					680			-		685	•	
	225	ccc	tgc	aaq	ttc	ctq	qcc	tgc	qqc	qaa	ttt	gcc	caa	tat	qta	aaq	aac	2233
	226											Ala						
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	235	Arg	Asn	Ala	Arg	Ser	Ser	Arg	Glu	Arg	Glu	Leu	His	Ala	Val	Pro	Asp	
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	237	cac	tct	gaa	aat	caa	gca	tac	aaa	act	agt	gtt	aaa	agt	tcc	aaa	atc	2425
	238	His	Ser	Glu	Asn	Gln	Ala	Tyr	Lys	Thr	Ser	Val	Lys	Ser	Ser	Lys	Ile	
	239					755					760					765		
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	241	Asn	Lys	Ile	Thr	Arg												
	242				770													
	243	tgaa	agaat	ttt a	acca	atcaa	ag at	ttgg	gaag	g aaa	attaa	aaaa	ctga	aaaat	tgt a	acaat	tatca	2540
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

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VERIFICATION SUMMARY
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DATE: 05/08/2000 TIME: 20:30:47

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